

SBIR/STTR Programs

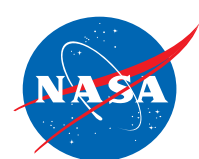
Small **B**usiness **I**nnovation **R**esearch
Small Business **T**echnology **T**Ransfer

Byron Jackson

**SBIR Program Office
NASA Jet Propulsion Laboratory**

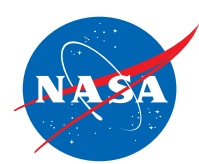
March 5, 2013





Agenda

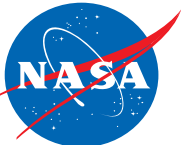
- ◆ **Federal SBIR/STTR Program – An Opportunity**
- ◆ **Information on 11 Agency Programs**
- ◆ **NASA SBIR Program Description**
- ◆ **What Are My Chances?**
- ◆ **How Should I Proceed?**
- ◆ **Proposal Submission and Selection**



SBIR/STTR Program Basics

- ◆ Congressionally mandated programs to increase U.S. competitiveness, create job growth, drive technical innovation, and encourage commercialization
- ◆ Programs open door to small business participation in Federal research and development programs
- ◆ Federal agencies with significant R&D budgets must set aside part of this funding for small businesses
- ◆ Congress recently reauthorized SBIR/STTR Program through 2017, reflecting strong political support
- ◆ At this time, approximately \$2.4 billion a year is invested in the program





SBIR/STTR Program Funding

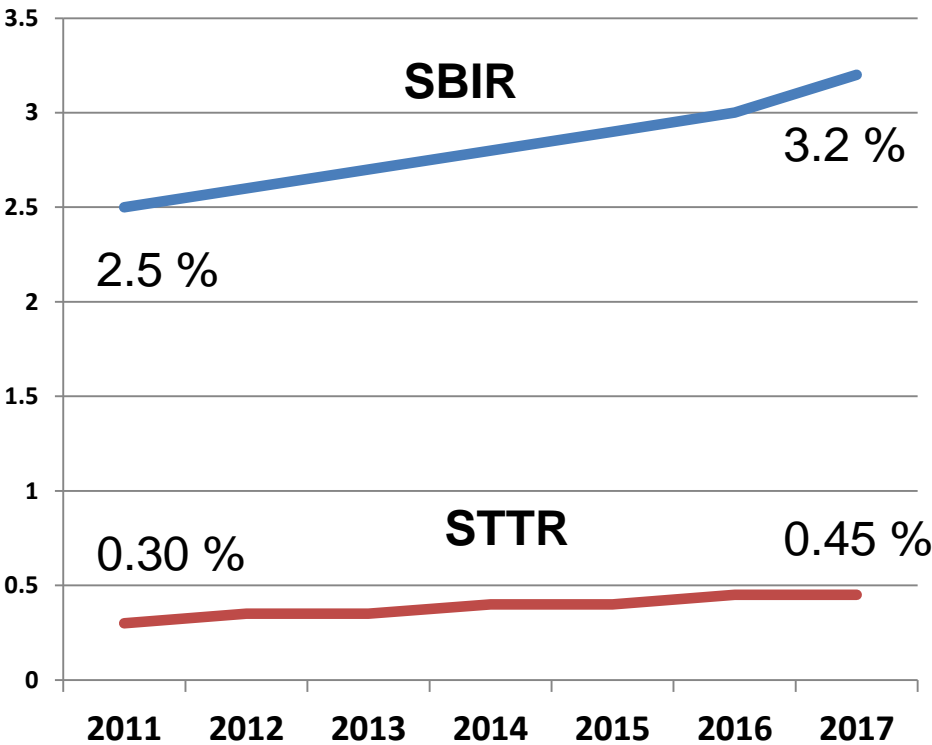
Federal agencies with an extramural R&D budget of over **\$100M** participate in the **SBIR** Program

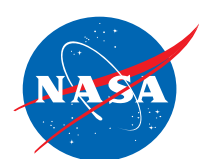
Federal agencies with an extramural R&D budget of over **\$1B** participate in the **STTR** Programs

Recent reauthorization required Federal agencies to increase their contribution through 2017

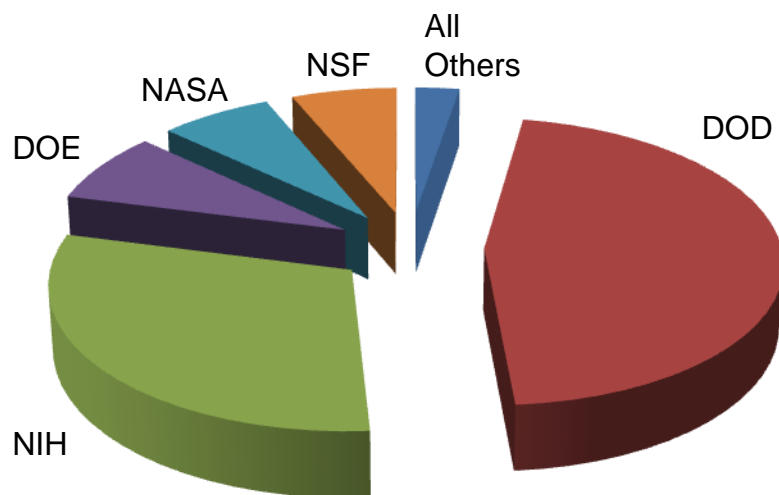
Extramural budget is agency R&D (including FFRDCs and contractor operated facilities) less funds for government owned and operated facilities

Funding Growth Under Program Reauthorization



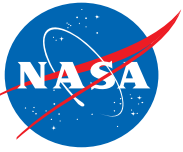


SBIR/STTR Agency Funding 2012, \$2.4 Billion

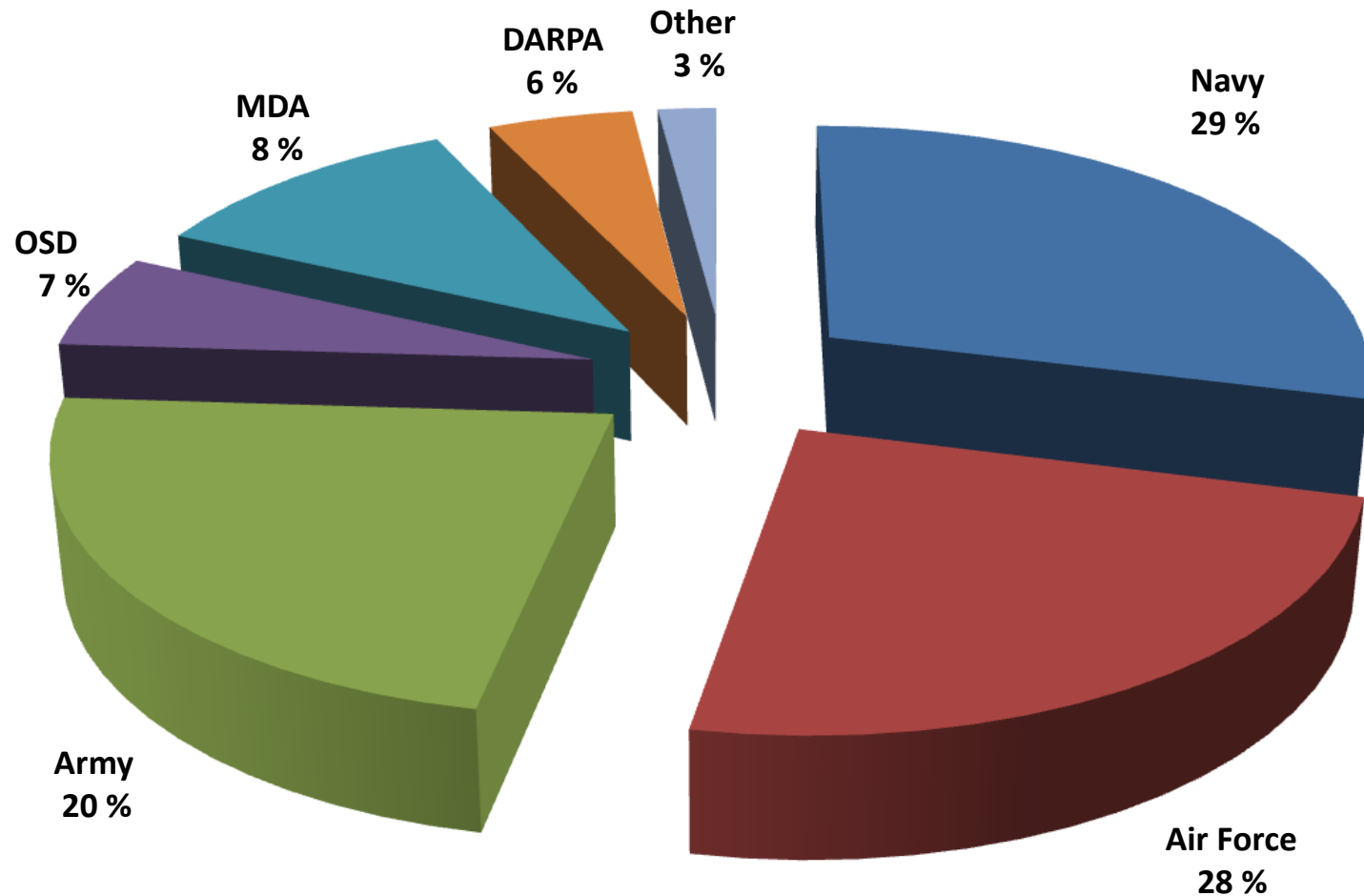


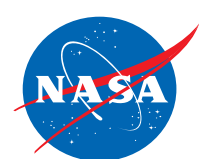
Agencies with SBIR and STTR Programs	
Department of Defense (DOD)	\$1.1 B
Department of Health and Human Services: National Institute of Health (NIHH)	\$717.0 M
Department of Energy (DOE)	\$188.3 M
National Aeronautics and Space Administration (NASA)	\$161.8 M
National Science Foundation (NSF)	\$150.6 M
Agencies with SBIR Programs	
US Department of Agriculture (USDA)	\$19.3 M
Department of Education (ED)	\$13.4 M
Department of Homeland Security (DHS): Science and Technology Directorate (S&T) and Domestic Nuclear Detection Office (DNDO)	\$12.6 M
Department of Transportation (DOT)	\$8.6 M
Environmental Protection Agency (EPA)	\$4.8 M
Department of Commerce: National Oceanic and Atmospheric Administration (NOAA) and National Institute of Standards and Technology (NIST)	\$4.7 M

Source: US Department of Energy, SBIR/STTR Program Office



DoD SBIR Program (2010)

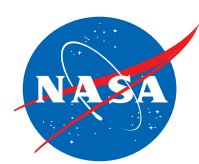




Three Phase Programs*

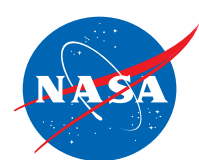
	<u>NASA SBIR</u>	<u>NASA STTR</u>
Phase I (2012) Project Feasibility	6 months up to \$125K select \$200k	12 months up to \$125K
Phase II (2012) Research & Development	2 years up to \$750K select \$1,500K	2 years up to \$750K
Phase III Commercialization	non-SBIR/non-STTR funds	

* Duration and funding limits are variable by agency.



Agency Programs Vary Significantly

- ◆ **Size of Phase I and Phase II awards vary over a wide range**
- ◆ **Different funding levels available in many cases**
- ◆ **Additional awards when company obtains matching funds from another source**
- ◆ **Fast Track Programs that speed up process for selected contracts**
- ◆ **Availability of commercialization assistance**
- ◆ **More than one solicitation a year**

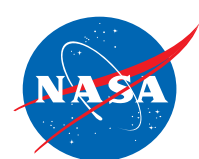


SBIR/STTR Solicitation Upcoming Dates

Agency	Release Dates	Accept Dates	Closing Dates
DoD SBIR	April 24, 2013	May 24, 2013	June 26, 2013
DoD SBIR	July 26, 2013	August 26, 2013	September 25, 2013
DoD STTR	January 25, 2013	February 25, 2013	August 29, 2013
DoD STTR	July 26, 2013	August 26, 2013	September 25, 2013
DoE Release 1 ¹	July 15, 2013	August 12, 2013	October 15, 2013
DoE Release 2 ¹	October 28, 2013	November 25, 2013	February 4, 2014
HHS/NIH SBIR/STTR AIDS	May 7, 2013	September 7, 2013 January 7, 2014	April 5, 2013 August 5, 2013 December 5, 2013
NASA SBIR/STTR	November 2013 ²	November 2013 ²	January 2014 ²

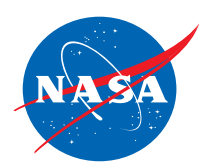
1. DoE begins with topic release, funding opportunity announcement, letter of intent followed by application due.

2. Date are tentative.



SBIR/STTR Solicitation Upcoming Dates

Agency	Release Dates	Accept Dates	Closing Dates
NSF SBIR	March 11, 2013	March 11, 2013	Jun 11, 2013
NSF SBIR	September, 2013	September, 2013	December, 2013
EPA SBIR	Mid-March, 2013	Mid-March, 2013	September 25, 2013
DOT STTR	June 20, 2013	June 20, 2013	August 29, 2013
ED SBIR	December, 2013	December, 2013	May, 2013
DOC NIST	Early Dec., 2013	Early Dec., 2013	Mid-March, 2014
DOC NOAA	Mid-November, 2013	Mid-November, 2013	Mid-January, 2014
USDA SBIR	June , 2013	June, 2013	September 26, 2013



NASA Participating Centers





<http://www.nasa.gov/offices/oct/home/index.html>



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Solicitations

NASA Seeks Big Ideas for Small In-Space Propulsion Systems
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2013 NIAC Phase I NRA/Solicitation
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2012 Space Technology Research Opportunities for Early Stage Innovations selections.
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NASA Selects Green Propellant Technology Demonstration Mission
Click here for more details.

Click here for more solicitations.

STMD



Space Technology Mission Directorate - a catalyst for creating of technologies and innovation.

Read More

NASA Tech Transfer Portal



Bringing technology from NASA back down to Earth!

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Office of the Chief Technologist





NASA Technology Supports American Manufacturing

NASA Administrator Charles Bolden toured a cutting-edge facility at the agency's Marshall Space Flight Center, where high-tech manufacturing is ...

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01 02 03 04 05

▶

Latest Interest



NIAC Spring Symposium March 12-14, 2013 →

The NIAC Program's 2013 Spring Symposium will be held March 12-14, 2013 at the Hyatt Regency McCormick Place in Chicago, IL. REGISTER HERE!



Space Technology Program: 2012 in Review

NASA is looking forward as well as reflecting upon recent payoffs in its portfolio of space technology investments.



NASA Technology Days 2012

To stimulate a collaborative dialogue and foster new partnerships between industry, academia, and government.

Technology and Innovation

Investments in space technology and innovation enable new missions, stimulate the economy, contribute to the nation's global competitiveness, and inspire America's next generation of scientists, engineers and astronauts.
Read more about OCT's work.

Space Tech In Our Lives

Harnessing the Power of NASA Technology



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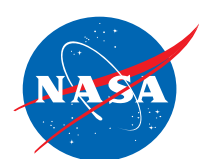
NASA Tech Twitter Updates

 NASA_Technology If you want to learn more about the technologies of the future, this is your event! [fb.me/2KW0MW2BC](https://t.me/2KW0MW2BC)
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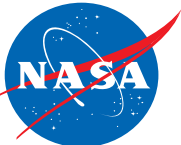
12



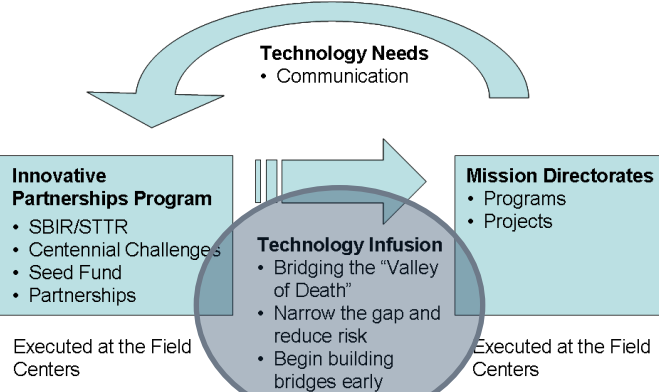
NASA Has an Active Infusion Effort

- ◆ Each NASA center has a technology infusion manager
- ◆ Insures that programs and projects at each center are aware SBIR/STTR technology developments
- ◆ Insure that SBIR/STTR companies have information they need on technology developments within NASA
- ◆ Assist SBIR/STTR companies in taking advantage of additional NASA funding opportunities

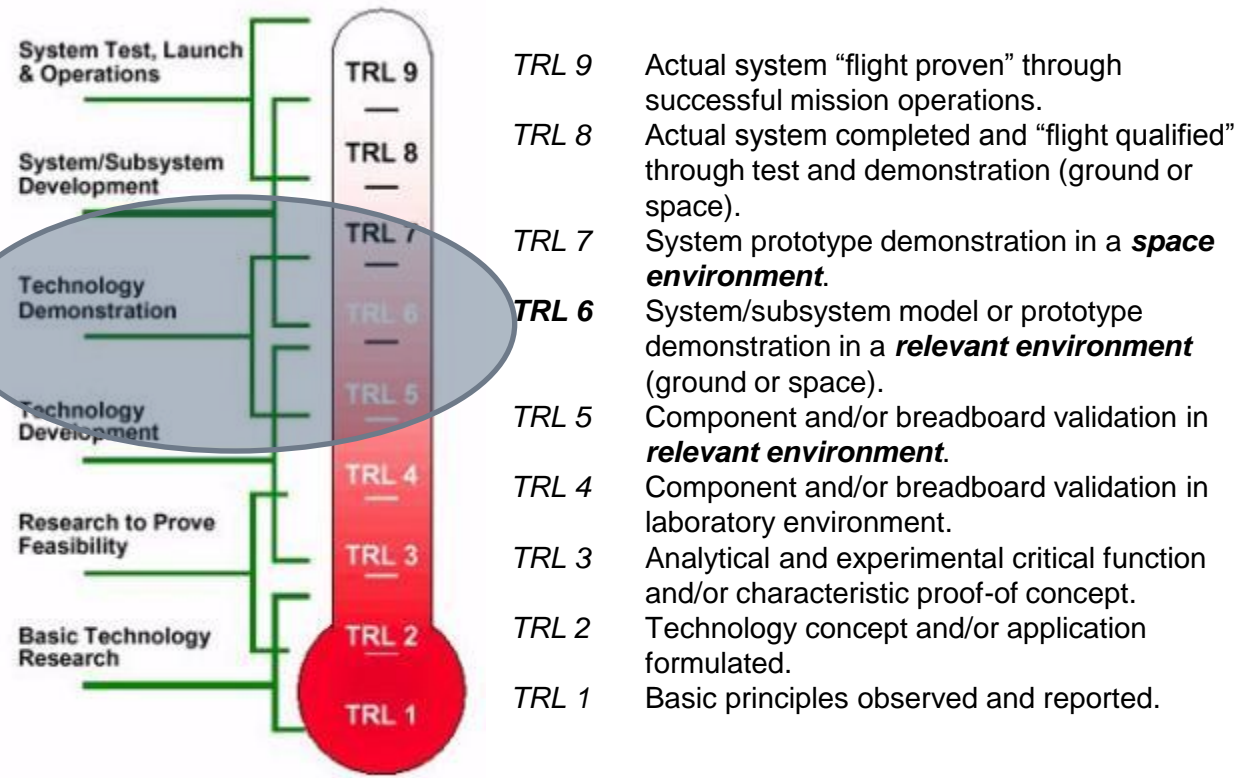




Technology Demonstration is critical to Infusion



- ◆ As a rule of thumb, projects like technology to be at Technology Readiness Level (TRL) 6 by PDR
- ◆ Technology Demonstration in relevant environments is critical





Mission Driven

Mission Directorates Are Actively Involved in Solicitation Development and Proposal Selection

Aeronautics



Human Explorations
and Operations



Science

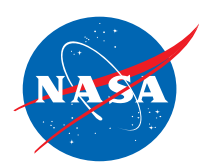




2012 Aeronautics Research Topics

- ◆ **Aviation Safety**
- ◆ **Air Traffic Management Research and Development**
- ◆ **Air Vehicle Technologies**





2012 Human Exploration and Operations Topics

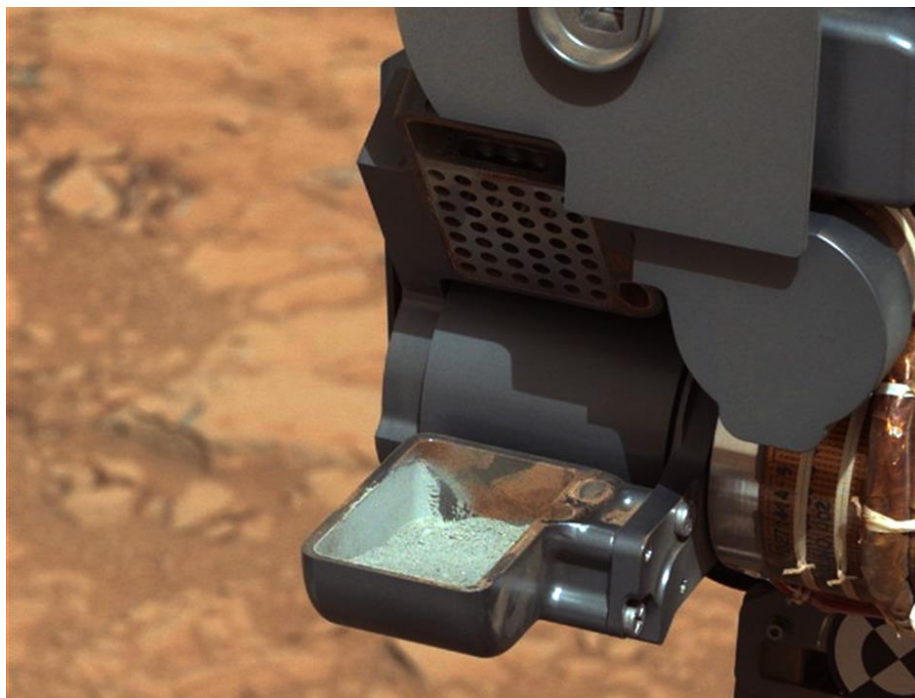
- ◆ In Situ Resource Utilization
- ◆ Space Transportation
- ◆ Life Support and Habitation Systems
- ◆ Extra-Vehicular Activity Technology
- ◆ Lightweight Spacecraft Materials and Structures
- ◆ Autonomous and Robotic Systems
- ◆ Entry, Descent, and Landing (EDL) Technology
- ◆ High-Efficiency Space Power Systems
- ◆ Space Communications and Navigation
- ◆ Ground Processing and ISS Utilization
- ◆ Radiation Protection
- ◆ Human Research and Health Maintenance





2012 Science Topics

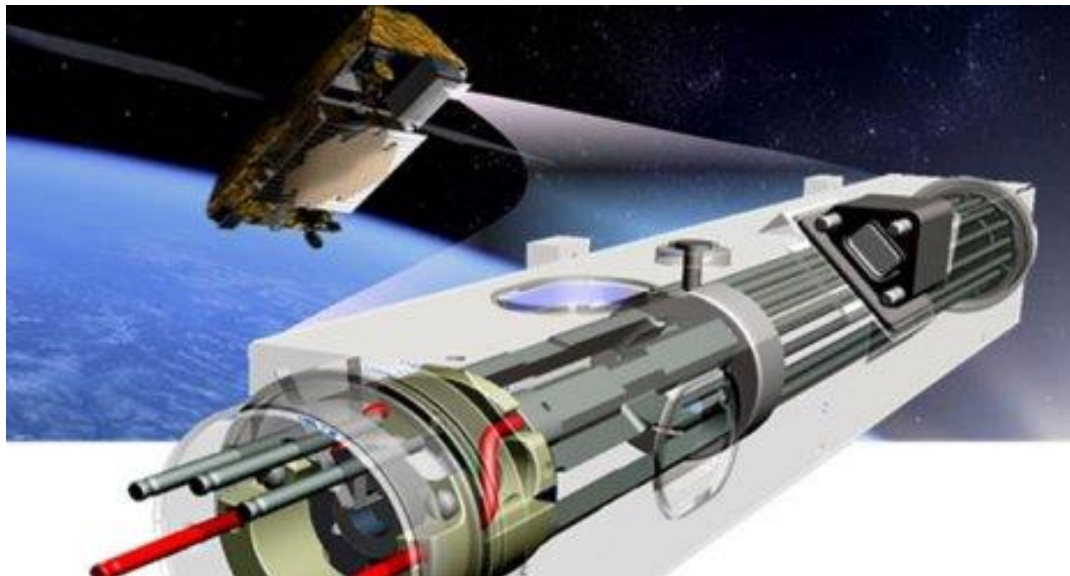
- ◆ **Sensors, Detectors, and Instruments**
- ◆ **Advanced Telescope Systems**
- ◆ **Spacecraft and Platform Subsystems**
- ◆ **Low-Cost Small Spacecraft and Technologies**
- ◆ **Robotic Exploration Technologies**
- ◆ **Information Technologies**

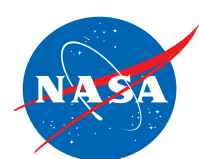




2012 STTR Subtopics - 1

- ◆ **Launch Propulsion Systems**
- ◆ **In-space Propulsion Technologies**
- ◆ **Space Power and Energy Storage**
- ◆ **Robotics, Tele-Robotics and Autonomous Systems**
- ◆ **Communication and Navigation**
- ◆ **Human Health, Life Support and Habitation Systems**

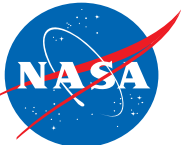





2011 STTR Subtopics - 2

- ◆ **Science Instruments, Observatories and Sensor Systems**
- ◆ **Entry, Descent and Landing Systems**
- ◆ **Nanotechnology**
- ◆ **Modeling, Simulation, Information Technology and Processing**
- ◆ **Materials, Structures, Mechanical Systems and Manufacturing**
- ◆ **Ground and Launch Systems Processing**
- ◆ **Cross-cutting Aeronautics**






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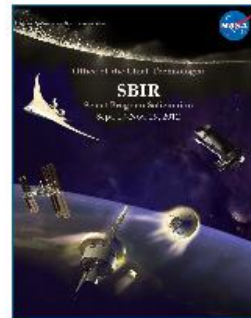
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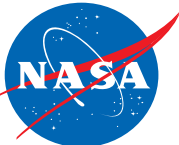
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Tech Briefs - NASA Engineering Solutions Magazine

Technology Innovation - NASA's Magazine for Business & Technology



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Putting Innovative Technologies to Work

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Firm Details

Firm: Fibertek, Inc.
Address: 13605 Dulles Technology Drive, Herndon, VA, 20171
URL: N/A
EIN: 541255705
DUNS: 107940207
CAGE: 8y519
[See All Awards for this Firm](#)

Firm Ownership Status
Disadvantaged-Owned: No
Woman-Owned: No
Hubzone-Owned: No
Veteran-Owned: No
Disabled Veteran-Owned: No

Related Documents

[Proposal Briefing Chart](#)

Award Details

Proposal #: S1.01-9270
Title: Single Frequency *Lasers* for Space-Based Wind and Aerosol Lidar
Contract #: NNX08CC70P
Program/Year/Phase/Center: SBIR 2007 -1 (LaRC)
Start/End Date: 01/25/2008 - 07/24/2008
Award Amount: \$99,389.00
Subtopic: S1.01 -Lidar System Components

Associated Awards:
[View Phase 2 Award](#)

Principal Investigator

Name: Floyd Hovis
Phone: (703) 471-7671
Email: fhovis@fibertek.com

Business Official

Name: Tracy Perinis
Phone: (703) 471-7671
Email: tperinis@fibertek.com

Abstract

This SBIR will develop single frequency cw *laser* technology for 2um lidar and *UV* interferometer locking control critical to NASA missions that will measure atmospheric winds and aerosols. NASA recently completed the Earth Science Decadal Study that identified atmospheric global wind and aerosol measurement as high priority missions with recommended satellite deployments within the next decade. Our general approach to this SBIR is to perform proof of concept research that results in optical designs that can be readily integrated into existing flight ready hardware. After Phase 2 we anticipate the technology will readily transfer to NASA mission use. We expect successful completion of the proposed work to increase the TRL from 4 to 5. The innovation of this SBIR is the development of space-qualifiable CW single-frequency *lasers* at 2 μ m and 355 nm, products that are not commercially available. Numerous pulsed 355 nm sources are available for commercial applications but they are not space-qualifiable. There are several scientific investigations of 355 nm CW *lasers* described in the literature but no effort has been made to create high vibration aircraft nor space qualified products available to NASA.

Taxonomy Mappings

Optical

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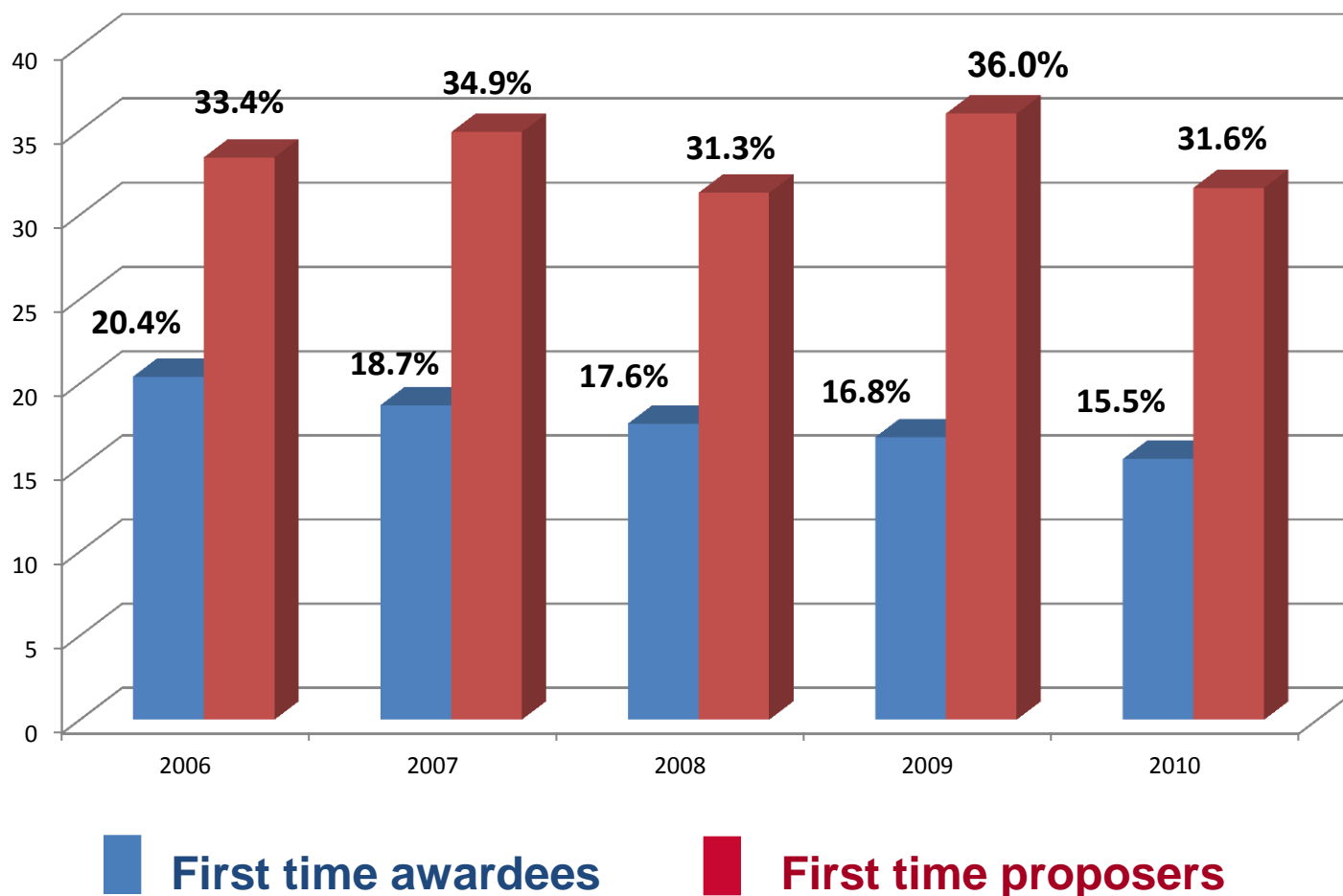
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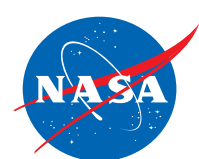


What Are My Chances ?



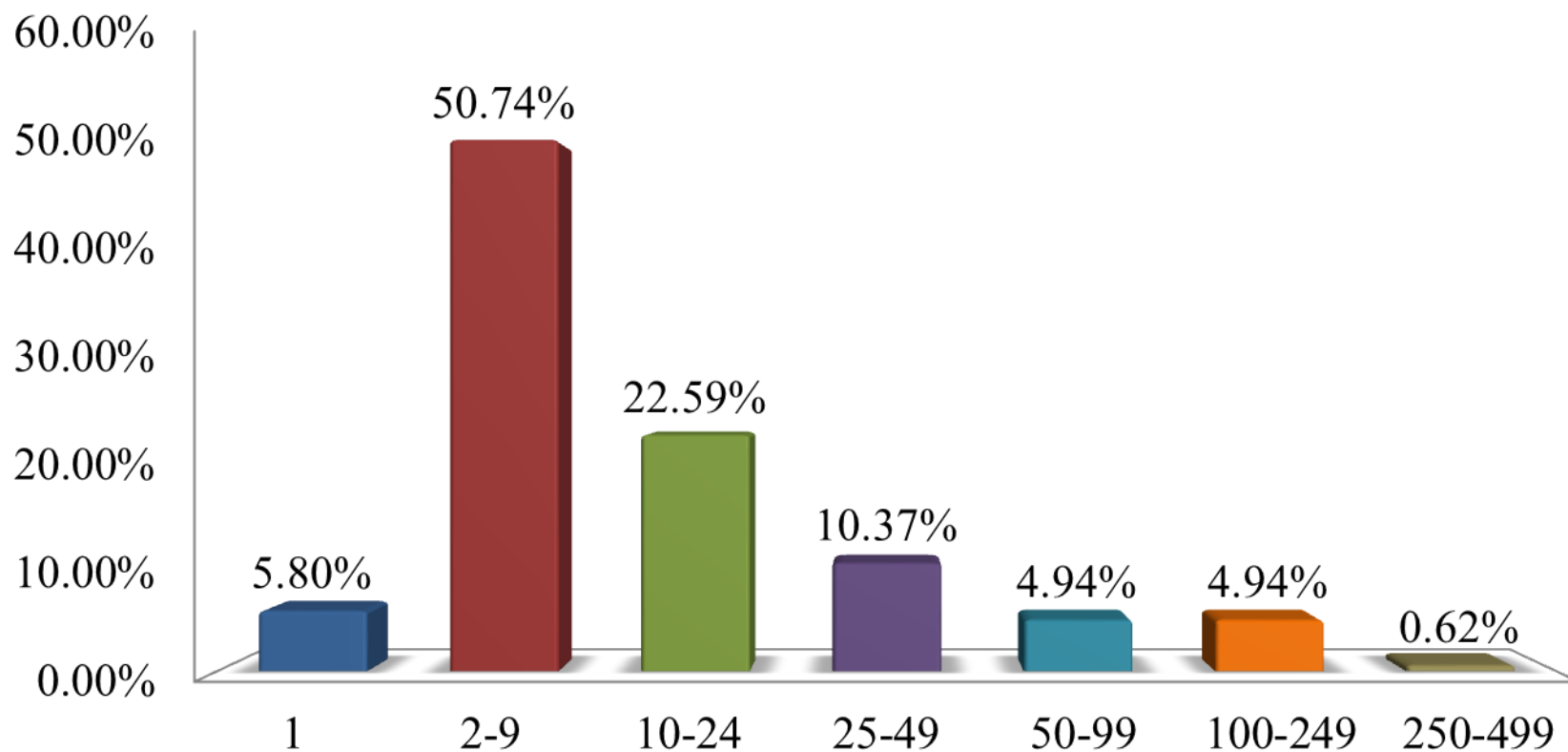
First Time Awardees and First Time Proposers to NASA SBIR/STTR





SBIR Participants

- ✓ Firms are typically small and new to the program
- ✓ About 1/3 are first-time Phase I awardees



Number of Employees NASA SBIR Phase I 2009



Innovation – Exploiting New Findings

Surface Optics – Successfully took a new mirror silver coating process developed at Lawrence Livermore Laboratories and applied it in a deposition reactor for large mirrors



Starsys Research – Evaluated new materials, manufacturing process steps, and design principles to arrive at a better planetary gearbox



GammaTech – Expanded capability of primary commercial software product to meet NASA's needs for validating new software





NASA SBIR Contributions to the Mars Science Laboratory

Grammatech - Software for eliminating defects in mission-critical and embedded software applications directing rover operations

Starsys Research - Planetary gearboxes for the articulated robotic arm and the descent braking mechanism for controlling rate of descent to planetary surface

Creare - A space-qualified vacuum pump for the Sample Analysis at Mars (SAM) instrument package

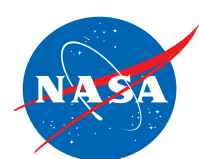


The Mars Science Laboratory Curiosity Begins its Scientific Investigation on Mars Surface

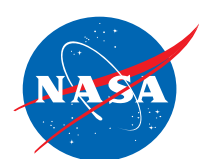
Yardney Technical Products – Lithium ion batteries that enable the power system to meet peak power demands or rover activities

Honeybee Robotics – Dust removal tool used to remove the dust layer from rock surfaces and to clean the rover's observation tray and designed the sample manipulation system for the Sample Analysis at Mars (SAM) instrument package

inXitu– Features of their automated sample handling system are implemented in the Chemistry and Mineralogy experiment (CheMin) instrument



How Should I Proceed ?



NASA SBIR/STTR

- Visit NASA SBIR/STTR website:
www.sbir.nasa.gov
- Review prior program solicitations, awards, technical abstracts, procurement information
- Prior success stories and success story videos

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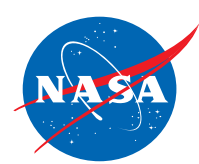
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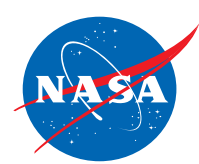
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Inherent Challenges of Space Systems

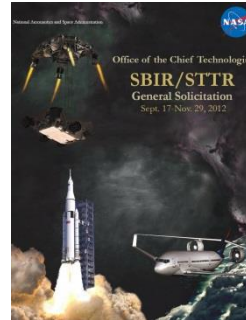
- ◆ **Surviving Launch Conditions: high g-load, vibration, payload fairing, deployment**
- ◆ **Functioning in Extreme Environments: radiation, temperature, gravity, vacuum**
- ◆ **Limiting Power Availability**
- ◆ **High Degree of Autonomy and Reliability**
- ◆ **Long Range Communication and Navigation**



Path to a Winning Proposal

- ◆ Review prior year solicitation:

<http://sbir.nasa.gov/>



- ◆ Search and identify specific technical areas (subtopics) and lead center(s) of your interest
- ◆ Request subject matter expert contact information from respective field center program POCs
- ◆ E-mail/Call technical POCs and initiate dialogues
- ◆ Learn technology needs, priorities, and funding gaps
- ◆ Visit and brief NASA on your companies capabilities, if the opportunity presents itself





SBIR/STTR Center Points of Contact - 1

- ◆ **Ames Research Center (ARC)**
- ◆ **Ryszard Pisarski, 650-604-0149, Ryszard.L.Pisarski@nasa.gov**
- ◆ **Kim Hines, 650-604-5582, Kimberly.K.Hines@nasa.gov**

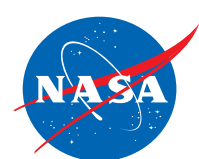
- ◆ **Dryden Flight Research Center (DFRC)**
- ◆ **Yohan Lin, 661-276-3155, Yohan.Lin@nasa.gov**

- ◆ **Glenn Research Center (GRC)**
- ◆ **Gynelle Steele, 216-433-8258, Gynelle.C.Steele@nasa.gov (ARMD)**
- ◆ **Hung Nguyen, 216-433-6590, Hung.D.Nguyen@nasa.gov**
- ◆ **Dean Bitler, 216-433-2226, Dean.W.Bitler@nasa.gov**

- ◆ **Goddard Space Flight Center (GSFC)**
- ◆ **Cynthia Firman, 301-286-0886, Cynthia.M.Firman@nasa.gov**

- ◆ **Jet Propulsion Laboratory (JPL)**
- ◆ **Carol Lewis, 818-354-3767, Carol.R.Lewis@jpl.nasa.gov**
- ◆ **Richard Terrile, 818-354-6158, Richard.J.Terrile@jpl.nasa.gov (SMD)**
- ◆ **Byron Jackson, 818-354-1246, Byron.L.Jackson@jpl.nasa.gov**

- ◆ **Johnson Space Center (JSC)**
- ◆ **Kathy Packard, 281-244-5378, Kathryn.B.Packard@nasa.gov**



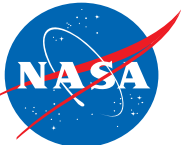
SBIR/STTR Center Points of Contact - 2

- ◆ **Kennedy Space Center (KSC)**
- ◆ **Brenda Penn, 321-861-3720, Brenda.A.Penn@nasa.gov**

- ◆ **Langley Research Center (LaRC)**
- ◆ **Bob Yang, 757-864-8020, Robert.L.Yang@nasa.gov (ESMD)**
- ◆ **Kimberly Graupner, 757-864-8618, Kimberly.E.Graupner@nasa.gov**

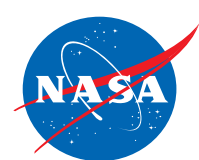
- ◆ **Marshall Space Flight Center (MSFC)**
- ◆ **Lynn Garrison, 256-544-6719, Virginia.B.Garrison@nasa.gov**

- ◆ **Stennis Space Center (SSC)**
- ◆ **Thomas Stanley, 228-688-7779, Thomas.M.Stanley@nasa.gov**

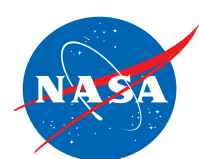


NASA SBIR 2012 Process Scenario



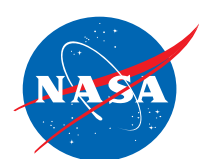


Proposal Submission



SBIR – Eligibility Checkpoints

- ◆ **Organized for-profit U.S. small business (500 or fewer employees)**
- ◆ **At least 51% U.S. owned and independently operated**
- ◆ **Small business located in the U.S.**
- ◆ **P.I.'s primary employment must be with small business during the project**
- ◆ **For Phase I, no more than 1/3 of funding less profit can be subcontracted, 1/2 for Phase II**



STTR – Eligibility Checkpoints

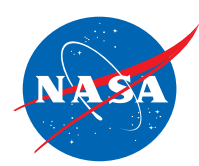
- ◆ **Small business must perform a minimum of 40% of the work; research institution a minimum of 30%**
- ◆ **Research institution is a FFRDC, college or university, or non-profit research institution**
- ◆ **No size limit on research institution**
- ◆ **Small business must manage and control the STTR funding agreement**
- ◆ **Principal Investigator may be at the small business or research institution**



Submission Process

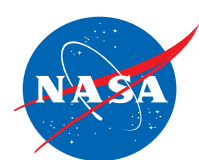
- ◆ **All proposals are submitted electronically via the internet**
- ◆ **Make sure all parts of your proposal are received on time – late proposals are rejected**
- ◆ **Proposals are screened for administrative completeness and turned over to the managing NASA Center for technical review**





Some Important Facts to Remember

- ♦ **All** required items of information must be contained in your proposal – **carefully follow directions**
- ♦ Eligibility is determined at **time of award**
- ♦ The PI is **not** required to have a Ph.D.
- ♦ The PI **is** required to have expertise to oversee project scientifically and technically
- ♦ Applications **may be** submitted to **different agencies** for similar work
- ♦ Awards may **not** be accepted from different agencies **for duplicative projects**
- ♦ **Do not** plan on using Government facilities **unless** they are not available in the private sector



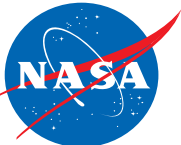
Proposal Review & Selection Criteria

◆ Proposal Review

- Factor 1: scientific/technical merit and feasibility (50%)
- Factor 2: experience, qualifications and facilities (25%)
- Factor 3: effectiveness of the proposed work plan (25%)
- Factor 4: commercial merit and feasibility (adjectival)

◆ Proposal Ranking and Selection

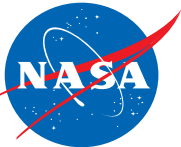
- NASA Project/Mission Alignment
- Value, Priority and Infusion Potentials
- Champion/Advocate




Nature of NASA SBIR & STTR Contracts

- ◆ **SBIR contracts are fixed price contracts to be completed on a best effort basis**
- ◆ **Company will own resulting intellectual property (data, copyrights, patents, etc.)**
- ◆ **Government has royalty-free rights for government use of intellectual property**
- ◆ **Government protects data from public dissemination for four years after contract ends**






Google JPL SBIR (<http://sbir.jpl.nasa.gov>)

**Jet Propulsion Laboratory**
California Institute of Technology


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SBIR/STTR Program

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▶ II
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Deformable Mirror Technology Increases Hale Telescope Capability
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New JPL SBIR Research & Development Phase II Contracts
**Technology Infusion and Post Phase II Opportunities**

Schedule Estimates				2012	2013	2014																						
Program Activity	Duration	Start	Finish	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
SBIR 2009 Phase 2 Contract Performance	2 years	5/31/2011	5/31/2013																									
SBIR 2010 Phase 2 Contract Performance	2 years	4/30/2012	4/29/2014																									
SBIR/STTR 2012 Program Solicitation	74 day	9/17/2012	11/29/2012																									
SBIR/STTR 2012 Phase 1 Selection Announcement	1 day	2/27/2013	2/27/2013																									
SBIR 2012 Phase 1 Contract Performance	183 days	4/22/2013	10/21/2013																									
SBIR 2011 Phase 2 Selection Announcement	1 day	11/5/2012	11/5/2012																									
SBIR 2011 Phase 2 Contract Performance	2 years	1/8/2013	1/7/2015																									
STTR 2009 Phase 2 Contract Performance	2 years	6/30/2011	6/30/2013																									
STTR 2010 Phase 2 Contract Performance	2 years	6/18/2012	6/17/2014																									



Available Assistance

Assistance for Small Businesses



[JPL SBIR/STTR Program Office Technology Infusion Manager](#)

Assistance identifying contacts, infusion opportunities and available resources through the SBIR/STTR Program

[California Small Business Development Centers](#)

Provides business assistance to start-up & existing businesses

[Other States](#)

State support for small businesses including financial assistance, training and technical assistance

[JPL Business Opportunities Office](#)

JPL program designed to afford small business the opportunity to compete for contracts, and to place the maximum number of contracts for supplies and services with them.

[California Manufacturing Technology Center \(CMTC\)](#)

CMTC Provides manufacturing and distribution consulting services to improve California's Industrial base.

[Venture Capital Information](#)

Trade association that represents the U.S. venture capital industry.